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CLAIMS

Having fully described my invention I claim:

- 1. (New) A Computer Program Operation Interface comprising:
 - a molded plastic base platform generally oval in shape intended to interface with a horizontal desk top work surface,
 - said horizontal base platform having a vertical tab rising up from one end at a 90 degree angle,
 - said horizontal base platform having a vertical pillar rising up from the platform deck at a 90 degree angle located approximately in the center of the platform having a threaded hole in the top of the pillar,
 - said horizontal base platform having an orifice in the horizontal deck between the vertical tab and the vertical pillar and another in the top of the vertical tab configured to receive an industry standard X-Y axis rollerball sensor with its appurtenances.
- said horizontal base platform having a vertical shortwall around the perimeter of the base over which the covering shell rests and into which is molded four receptors on each of the long sides of the shortwall configured to receive four industry standard on/off microswitches to be located directly under the finger pads molded into one side or the other of the covering shell.
 - said base having a U shaped slot in the vertical shortwall at the end opposite the vertical tab through which the serial patch cord exits the base platform.
- 2. (New) A Computer Program Operation Interface comprising:
- a molded plastic covering shell which fits around the vertical tab and over the vertical shortwall onto the stepledge around the perimeter of the base platform and is attached to the base by a single assembling screw,
 - said covering shell having molded into one side or the other four finger pads totally separated vertically but hinged at the top,
 - said covering shell having a U shaped slot in the end

- opposite the vertical tab allowing the exit of the serial patch cord from the base.
- 3. (New) A Computer Program Operation Interface according to c; aim 1 consisting of a base having six switch actuators: one actuator switch being an X-Y axis rollerball sensor located in the orifice provided in the deck of the horizontal base platform to activate for example the cursor location function of the program,
 - another said actuator being an X-Y axis rollerball sensor located in the orifice provided in the vertical tab to activate fro example the horizontal and vertical scroll functions of the program manipulated by the thumb, and
 - four industry standard on/off microswitches located in the receptors molded into the sides of the vertical shortwall and positioned directly under the finger pads molded into the appropriate side of the covering shell with all six switches being wired into an industry standard wiring harness and serial patch cord.
- 4. (New) A Computer Program Operation Interface accompanied by a driver and operational software that is programable and written in python language to allow the operation of of each activator switch to be programmed to the needs of the user and to make the device compatible to hardware and software programs.
- 5. (New)A Computer Program Operation Interface covering shell according to claim 2 comprising:
 - a shape to be precisely determined by consulting with anatomical experts familiar with the cause and prevention of carpal tunnel syndrome,
 - said shape to be generally egg-shaped completely filling the cavity of the palm of a relaxed hand in the natural position,
 - said shape to provide support for the entire surface of the inside of the palm and fingers, and
 - said shape to have a textured surface to provide ventilation for the palm and a sure grip on the devise by the user.

- 6. (New) A Computer Program Operation Interface which allows the full and optimum use of the hand of the operator with: the thumb operating the X-Y axis rollerball sensor located in the vertical tab activating for example the horizontal and vertical scroll function of the program,
 - the lateral movement of the wrist activating the X-Y axis rollerball sensor located in the deck of the horizontal base platform activating for example the cursor location function of the program,
 - each of the four on/off microswitches activated by the four individual fingers pressing on the four finger pads molded into the covering shell activating selected functions of the program thus permitting all six switches to be manipulated independently and simultaneously allowing optimum use of the operator's hand.
- 7. (New) A Computer Program Operation Interface having two X-Y axis rollerball sensors and four on/off microswitches strategically located to allow all six switches to be manipulated independently and simultaneously by the thumb, four fingers, and slight lateral movement of the wrist providing optimum input capability to meet the growing needs of ever more complex computer programs and games software.
- 8. (New) A Computer Program Operation Interface consisting of a molded plastic horizontal base platform and a molded plastic covering covering shell described in claims 1 and 2 respectively which is egg-shaped and fits comfortably into the palm of a relaxed hand in the natural position completely filling the palm cavity and supporting the entire inner surface of the palm and fingers supporting the carpal region of the hand and eliminating the need for the operator to extend the fingers into an unnatural position completely removing unnatural stress on the muscles and tendons of the hand and arm.